

In honor of NASA Glenn's Centaur Rocket turning 50!

**NOT A ROCKET LAUNCH...
It's an Engineering
Design Challenge!**



**NASA Glenn Research Center
Engineering Design & Challenge (7-9 Grade)**

Details and Registration at: <http://www.nasa.gov/content/centaur-design-challenge/>

Please Help NASA Glenn Research Center Celebrate Centaur!
**Participating schools will select teams to compete during the
Centaur Celebration at the Great Lakes Science Center
on November 22, 2013**

Challenge Details: The Centaur Rocket has been dubbed "America's Workhorse in Space" based on its innovation, efficiency, reliability, and extensive mission manifest. After its utilization in more than 200 unmanned missions, NASA Glenn Research Center (GRC) is celebrating the 50th Anniversary of Centaur with an educational **Engineering Design Challenge**, featuring key elements of the rocket's capabilities. In order to commemorate the work of Centaur, students will engage in a collaborative learning design project where they will demonstrate their knowledge of Centaur's propulsion concept and its history over the past 50 years by:

- Building a self-propelled vehicle that can start, stop, start again and deliver a payload to a specified target.
- Working as a team to develop, test, record, and improve an engineering design.
- Creating a brief 500 word essay responding to a rubric and present design results on a tri-fold poster.

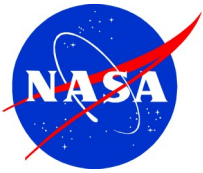
Design Challenge registration will be open online October 1 – November 1

What does NASA provide?

- ♦ Fun and effective way to present a cooperative learning physical science lesson aligned with current educational standards and Ohio Teacher Evaluation System requirements
- ♦ Fully downloadable educational materials
- ♦ Free NASA Education Teacher Professional Development Workshop*
- ♦ Opportunity for students to compete against other schools at the Great Lakes Science Center
- ♦ The winning team will receive a NASA plaque to take back to their school

*Attending the free workshop is not required to participate in the challenge but it is highly recommended.
Information is on the opposite side.





NASA Glenn Research Center
Educational Programs Office
21000 Brookpark Road
Cleveland, OH 44135

Are you new to teaching physical science?

Are you looking for some inspiration when it comes to teaching engineering?

Registered teachers will receive a complementary Lego™ Starter Kit

NASA Glenn's Centaur in the Classroom

FREE 1 DAY WORKSHOP FOR TEACHERS (GRADES 7-9)
JAM PACKED WITH NASA'S STANDARDS BASED RESOURCES

When: Tuesday, October 1, 2013 9am-3pm

Where: Ohio Aerospace Institute
22800 Cedar Point Rd Cleveland, OH 44142

Teachers must register by Sept 26, 2013

Please bring your own lunch

Details and Registration at:

<http://www.nasa.gov/content/centaur-design-challenge/>

Have questions about the workshop? Contact Monica Boyd at monica.l.boyd@nasa.gov

Space is limited, register now!

You're Cordially Invited to Help NASA Glenn Celebrate...

